

75622.P0037

Patent
TECHNOLOGY CENTER 2800
NOV 18 2002

RECEIVED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:)
Goldenberg, Marius)
Application No: 09/882,938)
Filed: June 15, 2001)
For: DIFFERENTIAL MODE)
CIRCUITRY AND METHOD OF)
CALIBRATING SAME WITHOUT)
MATCHED EXTERNAL)
CURRENT SOURCES)

Examiner: Nguyen, Khan V

Art Unit: 2817

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231 on

November 4, 2002

Date of Deposit

William D. Davis

Name of Person Mailing Correspondence

William D. Davis

Signature

11/04/02

Date

Commissioner for Patents
Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWINGS

Formal drawings of Figures 1-8 (6 sheets) are enclosed. Figures 3-4 incorporate the proposed changes indicated in the REQUEST TO APPROVE DRAWING CHANGES.

If there are any issues that can be resolved by telephone conference, the Examiner is respectfully requested to contact the undersigned at (512) 858-9910.

Respectfully submitted,

Date November 4, 2002

William D. Davis
William D. Davis
Reg No. 38,428



1/6

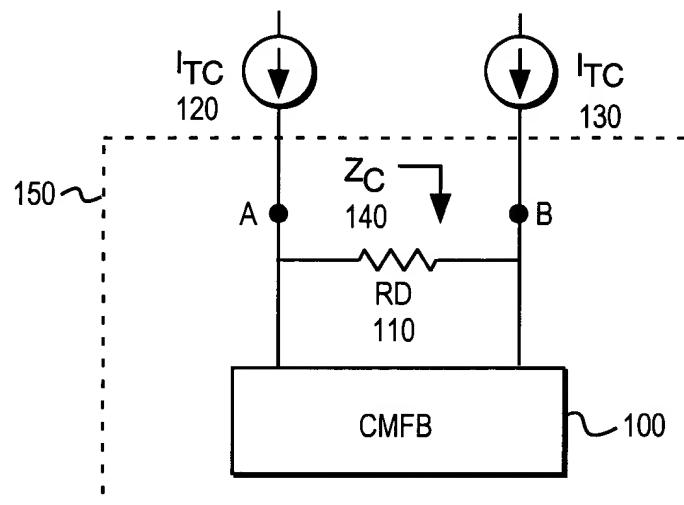


FIG. 1

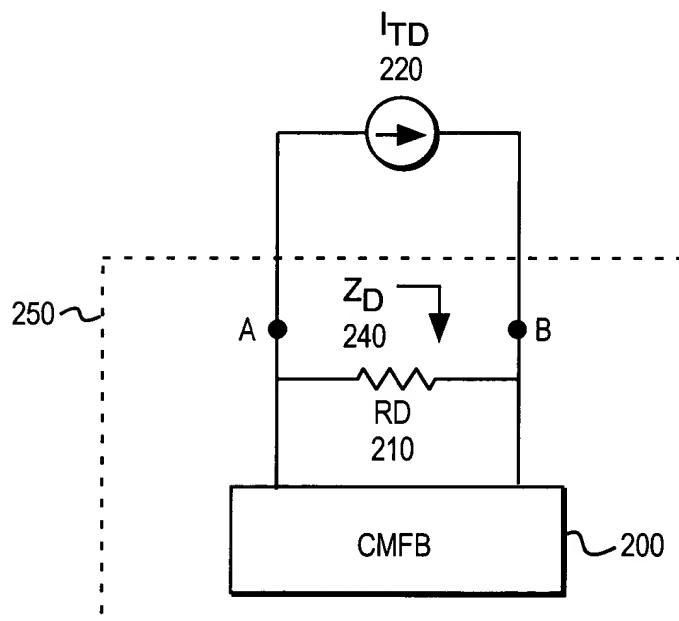


FIG. 2



2/6

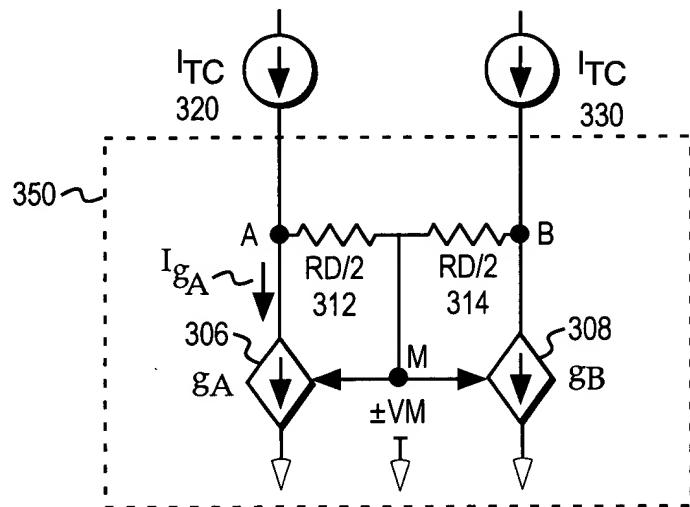


FIG. 3
Prior Art

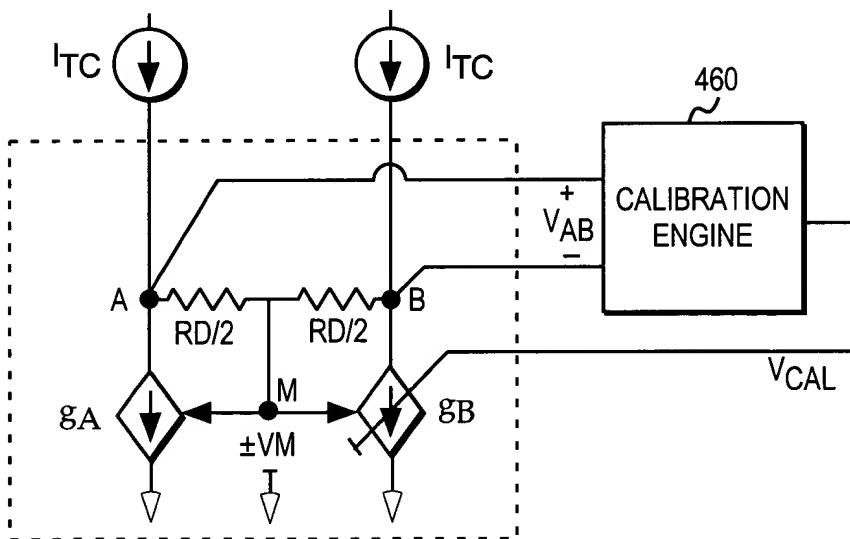


FIG. 4
Prior Art

DIFFERENTIAL MODE CIRCUITRY AND METHOD OF CALIBRATING SAME WITHOUT
MATCHED EXTERNAL CURRENT SOURCES
Docket No: 75622.P0037
App No: 09/882,938; Filed: June 15, 2001



3/6

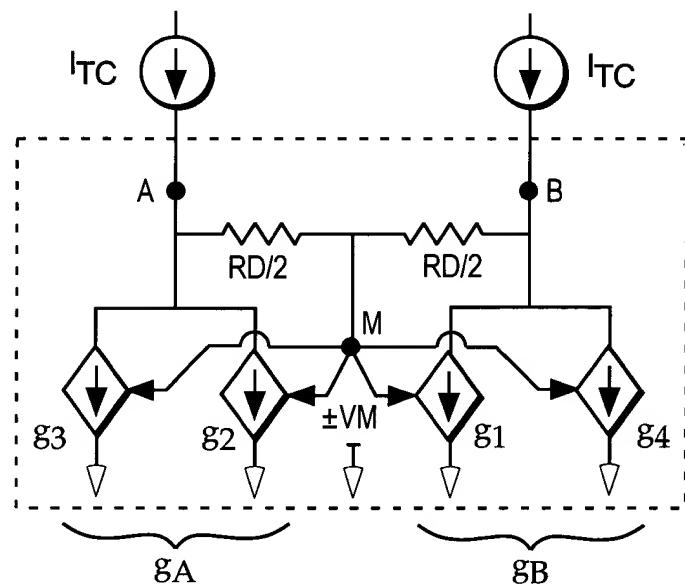


FIG. 5

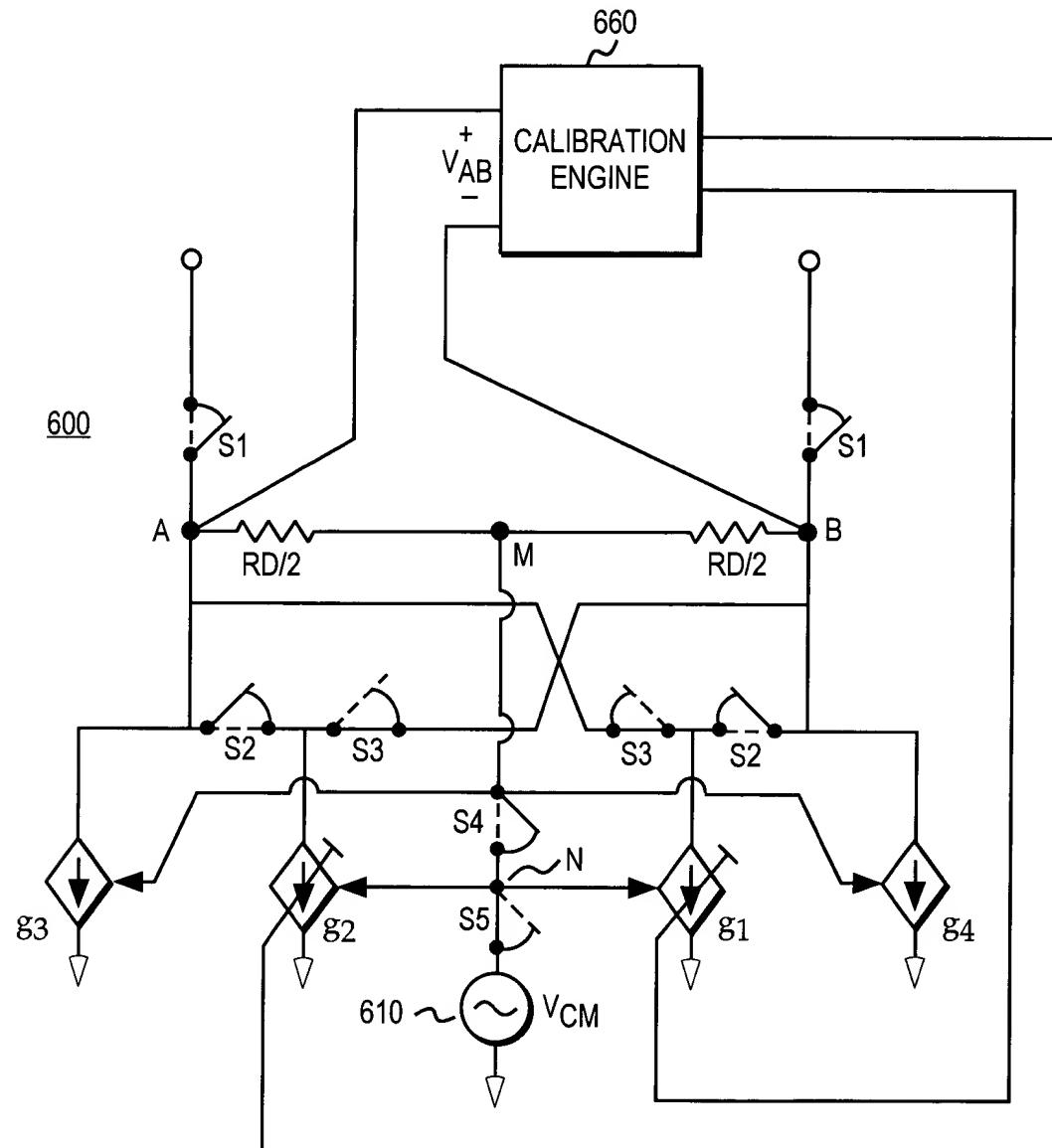
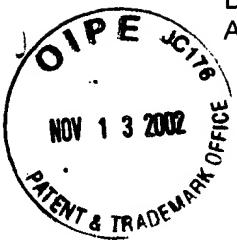


FIG. 6

DIFFERENTIAL MODE CIRCUITRY AND METHOD OF CALIBRATING SAME WITHOUT
MATCHED EXTERNAL CURRENT SOURCES

Docket No: 75622.P0037

App No: 09/882,938; Filed: June 15, 2001



5/6

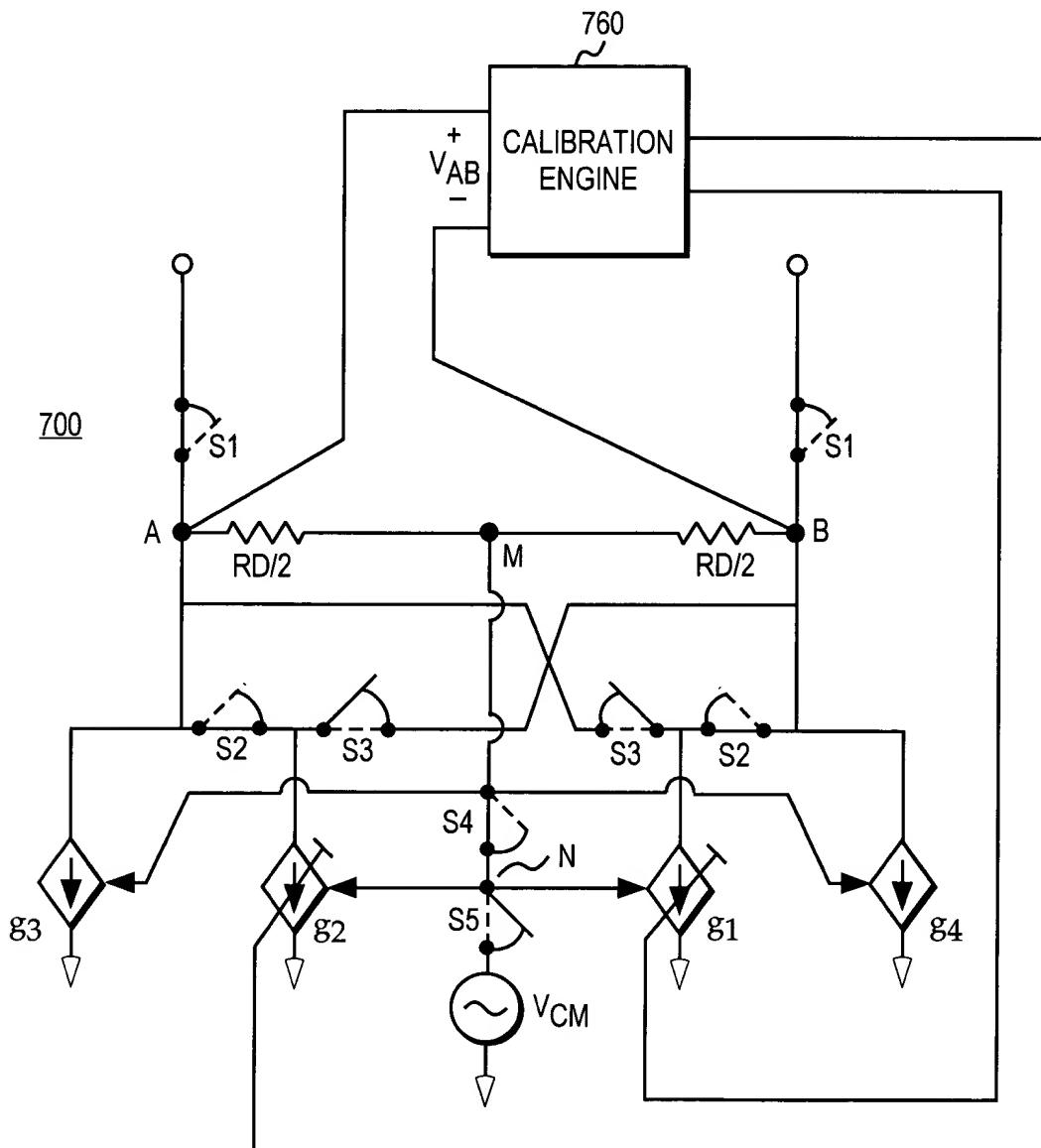


FIG. 7



PROVIDE CMFB FOR A DIFFERENTIAL NODE PAIR, WHEREIN EACH NODE IS ASSOCIATED WITH A PLURALITY OF TRANSCONDATORS, WHEREIN AT LEAST ONE OF THE COLLECTIVE PLURALITY OF TRANSCONDATORS IS ADJUSTABLE, WHEREIN THE TOTAL TRANSCONDANCE ASSOCIATED WITH EACH NODE IS APPROXIMATELY HALVED BETWEEN ANY NON-SWITCHED COMMON MODE CURRENT SINK TRANSCONDATORS AND ANY TRANSCONDATORS SWITCHABLE TO ACT AS CURRENT SINK OR CURRENT SOURCES

~ 810

SET CMFB IN CALIBRATION MODE

~ 820

ADJUST THE ADJUSTABLE TRANSCONDATORS UNTIL A SENSED DIFFERENTIAL NODE VOLTAGE IS SUBSTANTIALLY ZERO

~ 830

SET CMFB IN NORMAL MODE

~ 840

FIG. 8